Amendments to the Claims

- 1.-42. (Canceled).
- 43. (New) A method for removing injector fouling in a diesel engine, the method comprising:
 - providing a fouled diesel engine comprising an initial level of injector fouling, as evidenced in the laboratory by an initial fouling index; and,
 - removing at least some of the initial level of injector fouling, producing a cleaned diesel engine having a reduced level of injector fouling, as evidenced during laboratory testing by a reduced fouling index;
 - the removing comprising combusting in the diesel engine a fuel blend comprising a sufficient amount of Fischer-Tropsch derived gas oil to produce the cleaned diesel engine.
- 44. (New) The method of claim 43 wherein the reduced fouling index is 6% or more lower than the initial fouling index.
- 45. (New) The method of claim 43 wherein the fuel blend comprises a standard diesel fuel composition comprising less than 1% w/w Fischer-Tropsch derived gas oil, the method further comprising increasing the removal of the initial level of injector fouling by increasing the amount of the Fischer-Tropsch derived gas oil in the fuel blend, the increase in removal being evidenced in the laboratory by a further reduced fouling index.
- 46. (New) The method of claim 43 wherein the fuel blend comprises a standard diesel fuel composition comprising less than 1% w/w Fischer-Tropsch derived gas oil, the method further comprising increasing the removal of the initial level of injector fouling by providing the fuel blend with a sufficient quantity of detergent to produce a further reduced fouling index during laboratory testing.
- 47. (New) The method of claim 45 further comprising increasing the removal of the initial level of injector fouling by providing the fuel blend with a sufficient quantity of detergent to produce an even further reduced fouling index during laboratory testing.
- 48. (New) The method of claim 43 wherein the Fischer Tropsch derived gas oil comprises 95% w/w or greater components having boiling points of from about 150 to about 400°C.
- 49. (New) The method of claim 43 wherein the Fischer-Tropsch derived gas oil has a 90% w/w distillation temperature of from 300 to 370 °C.

- 50. (New) A method for removing injector fouling in a diesel engine, the method comprising:
 - providing a fouled diesel engine comprising an initial level of injector fouling, as evidenced in the laboratory by an initial fouling index; and,
 - removing at least some of the initial level of injector fouling, thereby producing a cleaned diesel engine having a reduced level of injector fouling, as evidenced in the laboratory by a reduced fouling index;
 - the removing comprising combusting in the diesel engine a fuel blend effective to produce the cleaned diesel engine, the fuel blend comprising a standard diesel fuel composition comprising less than 1 %w/w Fischer-Tropsch derived gas oil and an amount of 0.5 % w/w or more Fischer-Tropsch derived gas oil.
- 51. (New) The method of claim 50 comprising increasing the removal of the initial level of injector fouling by increasing the amount of the Fischer-Tropsch derived gas oil in the fuel blend, the increase in removal being evidenced in the laboratory by a more reduced fouling index.
- 52. (New) The method of claim 50 comprising increasing the removal of the initial level of injector fouling by providing the fuel blend with a sufficient quantity of detergent to produce a further reduced fouling index during laboratory testing.
- 53. (New) The method of claim 51 comprising increasing the removal of the initial level of injector fouling by providing the fuel blend with a sufficient quantity of detergent to produce an even further reduced fouling index during laboratory testing.
- 54. (New) The method of claim 51 comprising increasing the amount of the Fischer-Tropsch derived gas oil to about 10% w/w or more of the fuel blend.
- 55. (New) The method of claim 51 comprising increasing the amount of the Fischer-Tropsch derived gas oil to about 30% w/w or more of the fuel blend.
- 56. (New) The method of claim 50 wherein 95% w/w or more of components of the 0.5 % w/w or more Fischer-Tropsch derived gas oil have boiling points of from about 150 to about 400°C
- 57. (New) The method of claim 50 wherein 95% w/w or more of components of the 0.5 % w/w or more Fischer-Tropsch derived gas oil have boiling points of from about 170 to about 370°C.

- 58. (New) The method of claim 50 wherein the 0.5 % w/w or more Fischer-Tropsch derived gas oil has a 90% w/w distillation temperature of from 300 to 370 °C.
- 59. (New) A method for reducing injector fouling in a diesel engine, the method comprising:

providing a diesel engine exhibiting an initial level of injector fouling, as evidenced in the laboratory by an initial fouling index; and,

operating the diesel engine using a fuel blend comprising a sufficient amount of Fischer-Tropsch derived gas oil to maintain or reduce the initial level of injector fouling.

- 60. (New) The method of claim 59 comprising reducing the initial level of injector fouling by increasing the amount of the Fischer-Tropsch derived gas oil in the fuel blend, the reduction being evidenced in the laboratory by a reduced fouling index.
- 61. (New) The method of claim 59 comprising reducing the initial level of injector fouling by providing the fuel blend with sufficient quantity of detergent to produce a more reduced fouling index during laboratory testing.
- 62. (New) The method of claim 60 comprising further reducing the initial level of injector fouling by providing the fuel blend with a sufficient quantity of detergent to produce a further reduced fouling index during laboratory testing.
- 63. (New) The method of claim 60 comprising increasing the amount of the Fischer-Tropsch derived gas oil to about 10% w/w or more of the fuel blend.
- 64. (New) The method of claim 60 comprising increasing the amount of the Fischer-Tropsch derived gas oil to about 30% w/w or more of the fuel blend.
- 65. (New) The method of claim 59 wherein the Fischer-Tropsch derived gas oil reduces the initial level of injector fouling and produces a fouling index that is 6% or more lower than the initial fouling index.
- 66. (New) The method of claim 59 wherein the Fischer-Tropsch derived gas oil reduces the initial level of injector fouling and produces a fouling index that is 9% or more lower than the initial fouling index.
- 67. (New) The method of claim 60 wherein the Fischer-Tropsch derived gas oil reduces the initial level of injector fouling and produces a fouling index that is 9% or more lower than the initial fouling index.

- 68. (New) The method of claim 59 wherein 95% w/w or greater of components of the Fischer-Tropsch derived gas oil have boiling points of from about 170 to about 370°C.
- 69. (New) The method of claim 59 wherein the Fischer-Tropsch derived gas oil has a 90% w/w distillation temperature of from 300 to 370 °C.
- 70. (New) A method for reducing combustion related deposits in a diesel engine, the method comprising:
 - introducing into a combustion chamber of the diesel engine a fuel blend comprising (a) a standard diesel fuel composition comprising less than 1 w/w% Fischer-Tropsch derived gas oil, and (b) an amount of about 5 w/w% or more of Fischer-Tropsch derived gas oil comprising 95% w/w or greater components having boiling points of from about 150 to about 400°C;
 - the diesel engine running on the standard diesel fuel composition producing a first quantity of engine fouling, as evidenced in the laboratory by an initial fouling index, and the diesel engine running on the fuel blend producing a reduced quantity of engine fouling, as evidenced in the laboratory by a reduced fouling index.
- 71. (New) The method of claim 70 wherein the reduced fouling index is 6% or more lower than the initial fouling index.
- 72. (New) The method of claim 70 wherein the reduced fouling index is 9% or more lower than the initial fouling index.
- 73. (New) The method of claim 70 comprising providing the fuel blend with a sufficient quantity of detergent to produce a more reduced quantity of engine fouling during laboratory testing.
- 74. (New) The method of claim 71 comprising providing the fuel blend with a sufficient quantity of detergent to produce a more reduced quantity of engine fouling during laboratory testing.
- 75. (New) The method of claim 72 comprising providing the fuel blend with a sufficient quantity of detergent to produce a more reduced quantity of engine fouling during laboratory testing.
- 76. (New) The method of claim 70 comprising further reducing the quantity of engine fouling by increasing the amount of the Fischer-Tropsch derived gas oil to about 10 % w/w or more of the fuel blend.

- 77. (New) The method of claim 73 comprising further reducing the quantity of engine fouling by increasing the amount of the Fischer-Tropsch derived gas oil to about 30 % w/w or more of the fuel blend.
- 78. (New) A method for removing combustion related deposits in a diesel engine, the method comprising:
 - operating a diesel engine using a standard diesel fuel composition comprising less than 1 w/w% Fischer-Tropsch derived gas oil, producing engine fouling comprising a quantity of combustion related deposits, as evidenced in the laboratory by an initial fouling index;
 - thereafter operating the diesel engine using a fuel blend comprising an amount of the Fischer-Tropsch derived gas oil sufficient to reduce the quantity of combustion related deposits, as evidenced in the laboratory by a reduced fouling index, the Fischer-Tropsch derived gas oil comprising 95% w/w or greater components having boiling points of from about 150 to about 400°C.
- 79. (New) The method of claim 78 wherein the reduced fouling index is 6% or more lower than the initial fouling index.
- 80. (New) The method of claim 78 wherein the reduced fouling index is 9% or more lower than the initial fouling index.
- 81. (New) The method of claim 78 comprising providing the fuel blend with a sufficient quantity of detergent to produce a more reduced quantity of engine fouling during laboratory testing.
- 82. (New) The method of claim 79 comprising providing the fuel blend with a sufficient quantity of detergent to produce a more reduced quantity of engine fouling during laboratory testing.
- 83. (New) The method of claim 80 comprising providing the fuel blend with a sufficient quantity of detergent to produce a more reduced quantity of engine fouling during laboratory testing.
- 84. (New) The method of claim 78 comprising further reducing the quantity of engine fouling by increasing the amount of the Fischer-Tropsch derived gas oil to about 10% w/w of the fuel blend.

85. (New) The method of claim 81 comprising further reducing the quantity of engine fouling by increasing the amount of the Fischer-Tropsch derived gas oil to about 30% w/w or more of the fuel blend.